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(71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, 5th floor, Oakland, CA 94607-5200 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KARIN, Michael [US/US]; 7710 East Roseland Drive, La Jolla, CA 92037 (US). GAO, Min [CN/US]; 8223 Jade Coast Road, #119, San Diego, CA 92126 (US). LABUDA, Tord [SE/SE]; Södra Forstadsgatan 19A, S-21143 Malmö (SE).

(74) Agents: LEKUTIS, Christine, A. et al.; Medlen & Carroll, LLP, 101 Howard Street, Suite 350, San Francisco, CA 94105 (US).

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(54) Title: ENHANCEMENT OF Th2-DEPENDENT AND INFLAMMATORY RESPONSE

(57) **Abstract:** The present invention relates to altering the levels of Th2 cytokine production, and in particular, biasing the cytokine expression profile towards Th2 cytokine production through mitogen-activated protein kinase/ERK kinase kinase 1 (MEKK1), the screening of agents that increase Th2 cytokine production, and the treatment of Th1 associated autoimmune diseases *in vivo*. In one embodiment, the present invention relates to agents including but not limited to reducing the activity of MEKK1, leading to increased levels of Th2 cytokine production.